TRUSCON

PATENT OFFICE

DESIGN

JUL 15 1949

DESIGN DIVISION

Metal ARCHES

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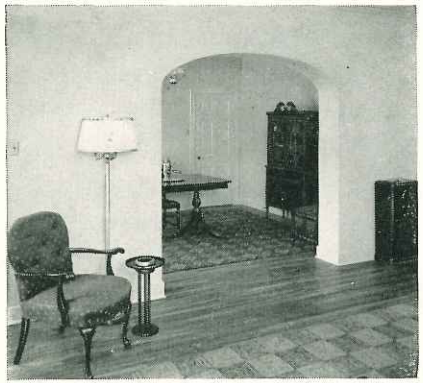
For Beautiful and Economical Plastering Effects

Truscon Metal Arches combine in a unit—plastering base, plaster ground and corner bead. They provide true, symmetrical plastered arched doorways and other types of arched openings; also arched wall recesses for telephone niches, bookcases, etc. The arches are made standard for 2 x 4-inch studs or bucks. They can also be adapted to smaller and wider studs or bucks.

Six Standard Sizes: The arches are made in True Circle, Gothic and Elliptic designs, in six standard sizes. These can be adapted to practically all types of openings ranging from 20 to 70½ inches. Smaller and larger openings can be fitted with sections of, or a combination of the standard units. Details of the standard sizes and some combination designs are shown on the inside page.



A Time Saver for the Builder: Truscon Metal Arches save about fifty percent on the cost of built-in-place arches by eliminating difficult operations—the construction of curved wood forms, the forming of corner bead, etc. They provide the three arches that are widely accepted for plastered arched openings.

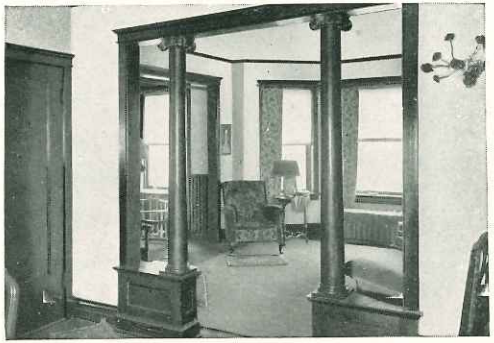
Easy to Erect: When studs or bucks are correctly spaced, Truscon Metal Arches can be quickly erected over any type of lath. They are attached with common nails driven through the solid metal part of the flanges.

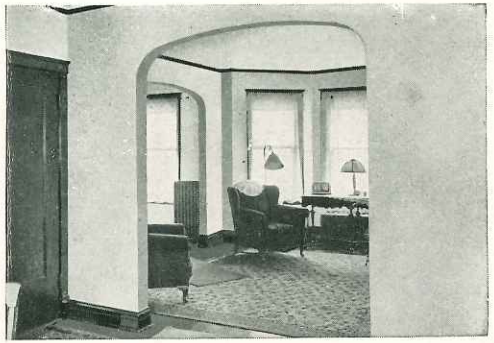
The beaded corners provide a true ground line for the plasterer and can be continued on the straight-runs with Truscon Corner Beads. The arches are made from "Galvannealed" sheet steel.

Ideal for Apartments and Homes: Truscon Metal Arches are especially desirable for apartment and residence interiors because of their architectural beauty and the economies they afford when wood trim is used. Also used in schools, offices, stores, or wherever arched openings and recesses are required.

EFFECTIVE FOR MODERNIZATION

Beautiful arched doorways can be installed in old interiors with Truscon Metal Arches at low cost. The arches are easily erected (over the lath) in any type of square doorway and the new plastering can be confined to a limited area.

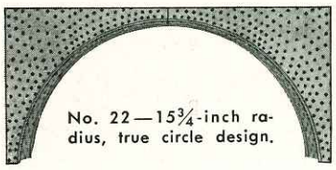




The illustration above pictures a doorway before and after it was modernized with a Truscon Metal Arch. Note the new beauty it adds.

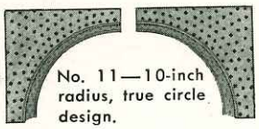
SIX STANDARD SIZES

These standard sizes, made in True Circle, Gothic and Elliptic designs can be adapted to practically any type of wall opening ranging from a small wall niche to doorway openings up to six feet. If a larger opening is required or one not consistent with standard size of arches, the opening can be fitted with sections of, or a combination of the standard units. Suggestions for combination designs are shown below.



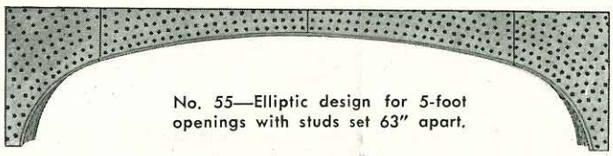
No. 22—15¾-inch radius, true circle design.

No. 33—Gothic design for 2'-6" opening with studdings set 33 inches apart.

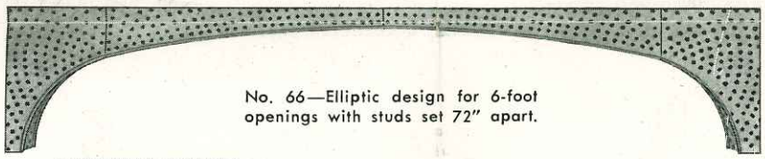


No. 11—10-inch radius, true circle design.

No. 44—Gothic design for 4-foot openings with studdings set 51 inches apart.



No. 55—Elliptic design for 5-foot openings with studs set 63" apart.



No. 66—Elliptic design for 6-foot openings with studs set 72" apart.

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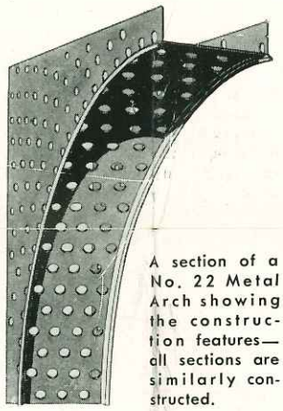
ERECTION DATA

TABLE OF ERECTION DETAILS			
Style of Arch	Width of Finished Opening	Height from Spring-line to Crown	Spacing between Studs or Bucks
No. 11	20"	10"	21½"
No. 22	31½"	15¾"	33"
No. 33	31½"	11⅜"	33"
No. 44	49½"	12½"	51"
No. 55	61½"	13"	63"
No. 66	70½"	13"	72"

Note: Stock millwork for doors can be added on the No. 22, 33, 44 and 55 openings if required at some future date.

Truscon Metal Arches are made standard for erection on 2 x 4 inch studs or bucks. Arches should always be erected over the lath (any type). In both new construction and remodeling work, the studs or bucks should be spaced 1½ inches wider than the desired finished opening (distance from nose to nose of the bead at bottom of arch.) This applies to the use of standard size arches, and openings in which combination designs are used; also recesses.

A practical method for erecting Truscon Metal Arches is: 1—Assemble units of arch on floor; 2—Join units by inserting the shank of a No. 7 box nail half way in the throat of the corner bead of each unit; 3—Strike exact center of the opening header; 4—Insert assembled arch in the opening (over the lath) and tack each side at center of header; 5—Lever arch and nail securely through the solid metal parts of the flange with lathing nails; 6—Fit vertical corner bead to arch by joining with nails, same as done with arch units.



A section of a No. 22 Metal Arch showing the construction features—all sections are similarly constructed.

When arches are to be used in smaller or larger openings than standard sizes, the units can be altered by cutting the bead with a hack saw and flanges or backs with a tinner's shear. With ordinary care the cutting should not affect the accuracy of the arch.

JUL 15 1949

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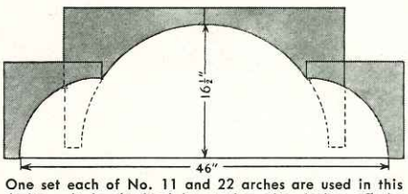
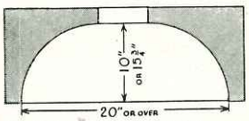
RETURN TO DESIGN DIV.

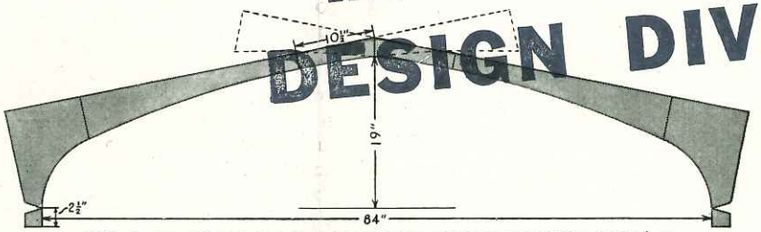
SOME COMBINATION DESIGNS



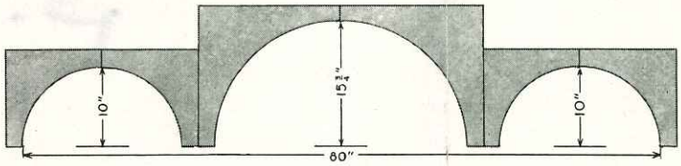
One set each of No. 11 and 22 arches are used in this design. It is obtained by cutting nine inches off the No. 22 arch and erecting with the No. 11 as shown above. Studs must be erected to conform.



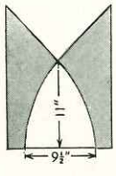
Openings of practically any width may be given an arched treatment by using either of the quarter circle arch designs in the corners and continuing the bead.



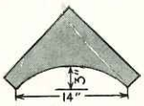
With the No. 66 arch and two extra members of the center section, erected as shown above, an interesting, symmetrical Tudor type of arch can be obtained. The extra center sections can be furnished separately.

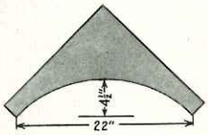


This detail suggests one of the many possibilities Truscon Metal Arches offer for the erection of the ornamental arched plastering designs. Similar combinations can be made up with the standard designs or a combination of them.

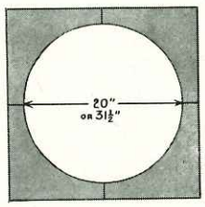


A bisected section of a No. 22 arch provides a true Gothic niche for telephone, etc. A flange can be easily removed.





Quarter circle sections of No. 11 and 22 arches can be advantageously used as illustrated for tops on the recessed type of pier bookcases, niches, etc.



Circle designs for ventilators, windows, etc.

MANUFACTURED UNDER LICENCE OF MERRYWEATHER PATENT No. 1782147, GRANTED NOV. 18, 1930

TRUSCON STEEL COMPANY, YOUNGSTOWN 1, OHIO

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Cold Rolled Channels
Expanded Metal
Concrete Reinforcing Bars
Welded Wire Fabric
Curb Bars

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READY FORMED PLASTERING ARCHES

PACKING DATA

Truscon Metal Arches are packed in strong corrugated cartons to assure reaching the consumer in good condition. Arches are now packed in individual cartons containing one set only. The former packing of five-set cartons has been discontinued.

Truscon Metal Arches packed in one-set cartons afford distinct advantages to the dealer and consumer. By this method the dealer is enabled to sell the arches individually packed, regardless of quantity and this adds to the convenience of the consumer.

TRUSCON STEEL COMPANY

YOUNGSTOWN 1, OHIO

Subsidiary of Republic Steel Corporation

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